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Very pure hydrofluoric acid made in ptfе appts using

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Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
BE 717933	A					196800 B
JP 70004326	B					197008
GB 1192474	A					197020
FR 1596497	A					197044
DE 1767548	B					197243

Priority Applications (No Type Date): BE 717933 A 19680711

Abstract (Basic): BE 717933 A

Production of ultra-high purity hydrofluoric acid from technically pure gaseous hydrogen fluoride, having the following level of impurities (% by weight): As, 10^{-1} - 10^{-2} ; P, 10^{-4} - 10^{-5} ; B 10^{-6} ; Si, 2×10^{-5} ; Ca, Mg, Fe, Cu etc. generally in the region 1×10^{-4} - 1×10^{-5} in which the gaseous hydrogen fluoride at 40-50 deg.C is passed first through two absorption columns in series packed with active carbon, in which the arsenic and phosphorus containing impurities particularly are removed, then through a filter containing a perchlorovinyl fabric of fine weave carrying an electrostatic charge, in which the bulk of the remaining impurities (fluorinated compounds of heavy metals, calcium magnesium, etc.) are removed. The partly purified hydrogen fluoride is then absorbed in specially pure water (specific resistance 10-15 ohms/cm) obtained by redistilling distilled water in polytetrafluoroethylene equipment and pumping the condensate by a submerged pump, constructed in an organic glass, to the absorber.

Derwent Class: A88; E36

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